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## In the Claims

1. A method of hierarchical linear regression adaptation of HMM models comprising the steps of:

providing HMM models for adaptation to a new acoustic environment and obtaining adapted new models directly from the initial HMM models using a single set of transformations.

- 2. The method of Claim1 wherein said obtaining step includes performing transformation accumulation between EM estimations and transformation accumulation between alignment iterations.
- 3. A recognizer comprising:
- a recognizer including adapted HMM models obtained directly from initial HMM models using a single set of transforms.
  - 4. The recognizer of Claim 3 wherein said HMM models are obtained by performing transformation accumulation between EM estimations and transformation accumulation between alignment iterations.